

PHOTOFACT* Folder



GENERAL INFORMATION

Silver-tone Models 8070 and 8072 are electrically alike. The major difference between the two models is mechanical. Model 8070 is a single speed and Model 8072 is two speed.

Models 8070 and 8072 are designed to record and play two tracks of material on standard width recording tape. This doubles the recording and playing time without loss of quality or frequency response. Recordings can be made from a phonograph, radio or television receiver, in addition to those made directly from the microphone.

Model 8070 has one speed, 7 1/2" per second, while Model 8072 has two speeds, 3 3/4" and 7 1/2" per second. Using both tracks, the recording times are as follows:

Reel Size	3 3/4" Speed	7 1/2" Speed
5" (600 ft.)	1 hour	1/2 hour
7" (1200 ft.)	2 hours	1 hour

Models 8070 and 8072 are designed to operate on 60 cycle, 110-120 volts, AC supply only. Before connecting to a supply line, be absolutely certain that it agrees with the above specifications.

SUPPLIED by:

SEARS, ROEBUCK & CO.
925 S. HOMAN STREET
CHICAGO 7, ILLINOIS

SILVERTONE MODELS 8070, 8072 (Ch. 528.58010, 528.58011,
528.58030, 528.58031, 528.59040, 528.59041, 528.59060, 528.59061)

SILVERTONE MODELS 8070, 8072 (Ch. 528.58010, 528.58011,
528.58030, 528.58031, 528.59040, 528.59041, 528.59060, 528.59061)

This material compiled and published by

HOWARD W. SAMS & CO., INC., INDIANAPOLIS, INDIANA

Copyright 1957 • All Rights Reserved

DATE 12 - 57

SET 380

FOLDER 11

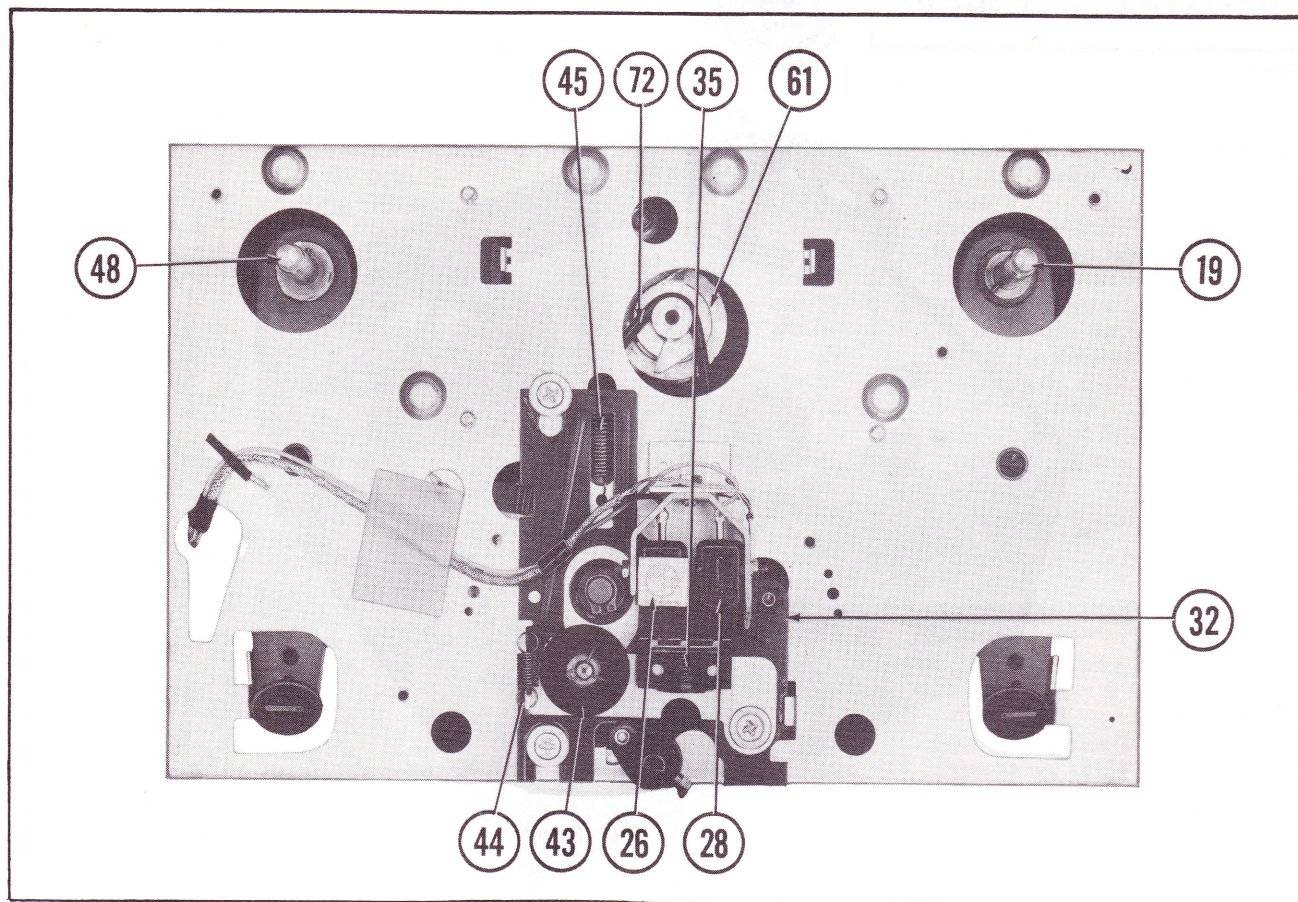


FIG. 1

SPECIFICATIONS

Fast Forward And Fast Rewind Speed:

5" Reel, (600 ft.)	55 Seconds (Approx.)
7" Reel, (1200 ft.)	105 Seconds (Approx.)

Frequency Response:

3 3/4" speed —	65 to 6000 cycles per second
7 1/2" speed —	65 to 8500 cycles per second

Bias And Erase Frequency:

52.5KC

Bias Voltage:

Shure Head, 10 volts bias
Michigan Mag. Head, 20 volts bias

Power Output:

2 Watts undistorted
3 Watts maximum

Inputs:

Microphone, 1 Meg. impedance
Radio-Phone, .5 Meg. impedance

Outputs:

Two internal 5" speakers

External 3.2 ohm speaker

External-low impedance across 3.2 ohm voice coil for external speaker.

External high impedance for external amplifier or monitor in record or playback position.

Maximum Reel Size:

7" (1200 ft.)

OPERATING INSTRUCTIONS

Speed Control-

The operating speed setting is accomplished by placing the speed control button (1) in either the "Up" or "Down" position. "Up" for 3 3/4" per second and "Down" for 7 1/2" per second. (Model 8072 only).

CAUTION: NEVER operate this control unless the ON-OFF switch (12) is in the ON position.

Threading Tape-

1. Place a reel of tape on the right reel plate (9), and an empty reel on the left reel plate (9) making certain the reel slots engage the pins on the reel plates.

2. Turn the Play-Record control knob (5) in the center of the machine to the fully counterclock-wise position.

3. Unwind about 10" of tape from the reel. Hold

a section of the tape straight with both hands and insert the tape in the tape slot making certain that the dull coated side faces the rear of the recorder.

4. Insert the end of the tape into one of the three radial slots in hub of the take-up reel. Turn the reel several turns, clockwise, until the tape is secured to the reel and all slack is taken up between the reels.

To Record From Microphone-

1. Turn the recorder on by rotating the "ON"-OFF" control to the right. Allow about 30 seconds for the tubes to warm up.

2. Insert the microphone plug into the "Mike" jack.

3. Adjust the speed control knob (1) for the desired speed - $3 \frac{3}{4}$ " or $7 \frac{1}{2}$ " per second.

4. Push down on the Play-Record control knob (5) as far as it will go. Hold down and turn clockwise until it locks.

5. Hold the microphone away from your mouth about 6 to 12 inches and speak in a normal voice. DO NOT SHOUT. Adjust the volume control until the record level indicator flashes on the loudest sound.

NOTE: Correct volume level on recording is very important. Too weak a signal, which does not cause flashing on the recording level indicator, will result in weak playback and high background noise. Too strong a signal, which causes continuous flashing of the level indicator, will result in distortion during playback.

To Record From Radio-

Recordings from a radio may be made by one of these methods.

1. Through the microphone by pickup from the radio speaker:

Place the microphone about 6" to 12" in front of the radio speaker. Turn the radio volume control to a normal level. Setting it too high will cause distortion. Turn the radio tone control to treble or high. Set the recording level and record as under "To Record From Microphone."

2. Through a direct connection to the Radio speaker:

Make up a shielded cable with a two conductor phone plug on one end and two alligator clips on the other end. Connect the alligator clips across the voice coil terminals of the radio speaker and insert the plug into the "Radio-Phono" jack. Set the radio volume and tone controls as described above. Set the recording level and proceed as described under "To Record From Microphone".

3. Through a direct connection to the volume control of the radio:

Make up a shielded cable with a two conductor plug on one end. Connect the other end across the radio volume control. Insert the phone plug in the "Radio-Phono" jack. Set the recording level and proceed as described under "To Record from Microphone".

ceed as described under "To Record from Microphone". The radio volume and tone controls do not affect this set up, consequently they may be set any place.

To Record From Record Player-

1. If the Record Player being used has a phone type plug on the pick-up leads, insert it into the "Radio-Phono" Jack. Set the recording level and proceed as listed under "To Record From Microphone".

2. If the Record Player has a standard pin type plug, which is more common, an adapter is needed. Insert the pin plug into the adapter and plug the adapter into the "Radio-Phono" jack.

To Record From Television Receiver-

Use one of the three methods described under "To Record From Radio".

Dual Track Recording-

These recorders are designed to record and play on one-half the width of the tape at a time; thereby resulting in two track recording. To record on the other half of the tape remove the full reel from the takeup (left) side, turn reel over and place it on the feed (right) side. In playing or recording you may stop any place and reverse the reels to use the other track.

Fast Forward And Fast Rewind-

High speed forward or rewind operation may be obtained by pressing the desired knob (13) toward the head cover. This will wind the tape on the desired reel at a high speed as long as the knob is held in this position.

NOTE: Do not attempt fast forward or rewind with the Play-Record control on any setting except neutral position, as damage to the unit or tearing of the tape will result.

Braking-

This recorder contains an automatic brake mechanism giving more accurate tape control. To stop the tape at any time, when operating on fast forward or fast rewind, simply release the forward or rewind control. The tape will automatically come to a stop.

To Play A Recording-

1. Thread the tape as described under "Threading Tape".

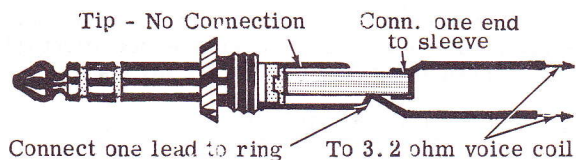
2. Turn play-record control (5) clockwise without depressing until it locks.

3. Adjust the "Volume" and "Tone" controls (12) to desired listening level.

To Use An External Speaker-

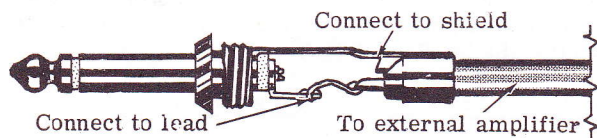
Plug external speaker through a three conductor plug into the "Output Jack". Connect the three conductor plug as shown in sketch.

CAUTION: Do not insert plug into recorder without external speaker attached.



To Use An External Amplifier-

Plug the external amplifier into the "Output Jack" through a two conductor plug connected as shown in sketch.



To Edit And Splice Tape-

NOTE: Since it is impossible to edit and splice one track without affecting the other, recordings to be edited should be limited to one track only.

1. Tape may be edited by cutting out unwanted portions, or by joining selections into another sequence. Announcements can be inserted between selections, etc. Unused tape can be spliced for re-use.

2. For best results cut tape at a slight diagonal, joining ends together with a butt joint and fastening on the glossy side with splicing tape. Trim off any excessive width.

To Erase A Recording-

In the record position any recording on the tape is automatically erased before the new recording is put on the tape. Should it be desired to erase a recording without recording new material, follow the normal recording procedure, except set the volume control to the full counter-clockwise position.

ADJUSTMENTS

Spindle (19 And 48) End Play Adjustment-

The spindles should have from $1/32"$ to $1/16"$ of up and down movement. To adjust loosen set screw (65) on spindle to be adjusted and move the pulley (55) up or down as required until the correct end play is obtained.

Take-Up Lever Adjustment-

Spring (83) on the take-up lever (90) controls the timing of the left take-up reel holder (9). With the control knob (5) in the play back position, the take-up reel should start revolving at the same time or a little after the Pressure Roller (43) starts pulling the tape past the head (39).

Check adjustment by placing a fully loaded 7" reel on the take-up spindle. Rewind for about 10 seconds. Move the control knob (5) to the playback position and observe the action described above.

If adjustment is required, bend ear on take-up arm (85) in the position and direction indicated in

sketch on exploded view. Care must be exercised when making this adjustment and repeated trials between bends should be made.

Take-Up And Feed Reel Drag-

When the control knob (5) is placed in the "Neutral" position the reels should stop promptly with a minimum of overrun. There should be no looping of the tape. With control knob (5) in the neutral position and without reels on the holders, they may revolve slightly, but once the reels are put in place they should not revolve.

Stops, labeled "C" and "D" on Figure 3B, located on baseplate (22) controls the above action. They regulate the amount of return that take-up arm (85) or rewind arm (52) makes after controls have been released; not sufficient return would cause continued Fast Rewind or Fast Forward operation, while too much return would not allow drive belts (88) or (59) to put a drag on the respective pulleys. Bend these stops carefully so as to obtain operation described above. Stop "C" controls the take-up side while stop "D" controls the rewind side.

Head Alignment Adjustment-

It is extremely important that the Head (39) be lined up perfectly with the tape. If not, the result will probably be low output, track overlap, or loss of high frequencies.

1. Chassis 567.58030, 528.58030 and 528.58010 (SHURE Head).

If the SHURE Head requires replacement, the complete assembly composed of the head and head holder should be replaced. The head holder is adjusted individually to the head and sealed at the factory. When installing head (39A) observe the following precautions:

HEAD HEIGHT: Place a .179" gauge (between $11/64"$ and $3/16"$) near the mounting bracket and between base plate (22) and bottom of head holder. Push down on head (39A) and tighten set screw (23). Remove gauge.

An alternate method of adjusting the head height when a gauge is not available is as follows:

(a) Remove the pressure shoe assembly (36) from the pressure bracket so the head can be observed through the opening in the pressure bracket.

(b) Align head (39A) so the bottom of the head opening is at the same level (or slightly higher) as the corresponding bottom of the opening of the pressure bracket.

(c) With the unit pulling tape, the tape should approach the take-up reel nearly centered between the flanges of the reel. If the tape runs against the bottom flange, it is an indication that the head is too low.

(d) Make "Output Response" adjustment as described in Section 3 below.

2. Chassis 567.58031, 528.58031 and 528.58011 (Michigan Magnetic Head)

On units using the Michigan Magnetic Head, a

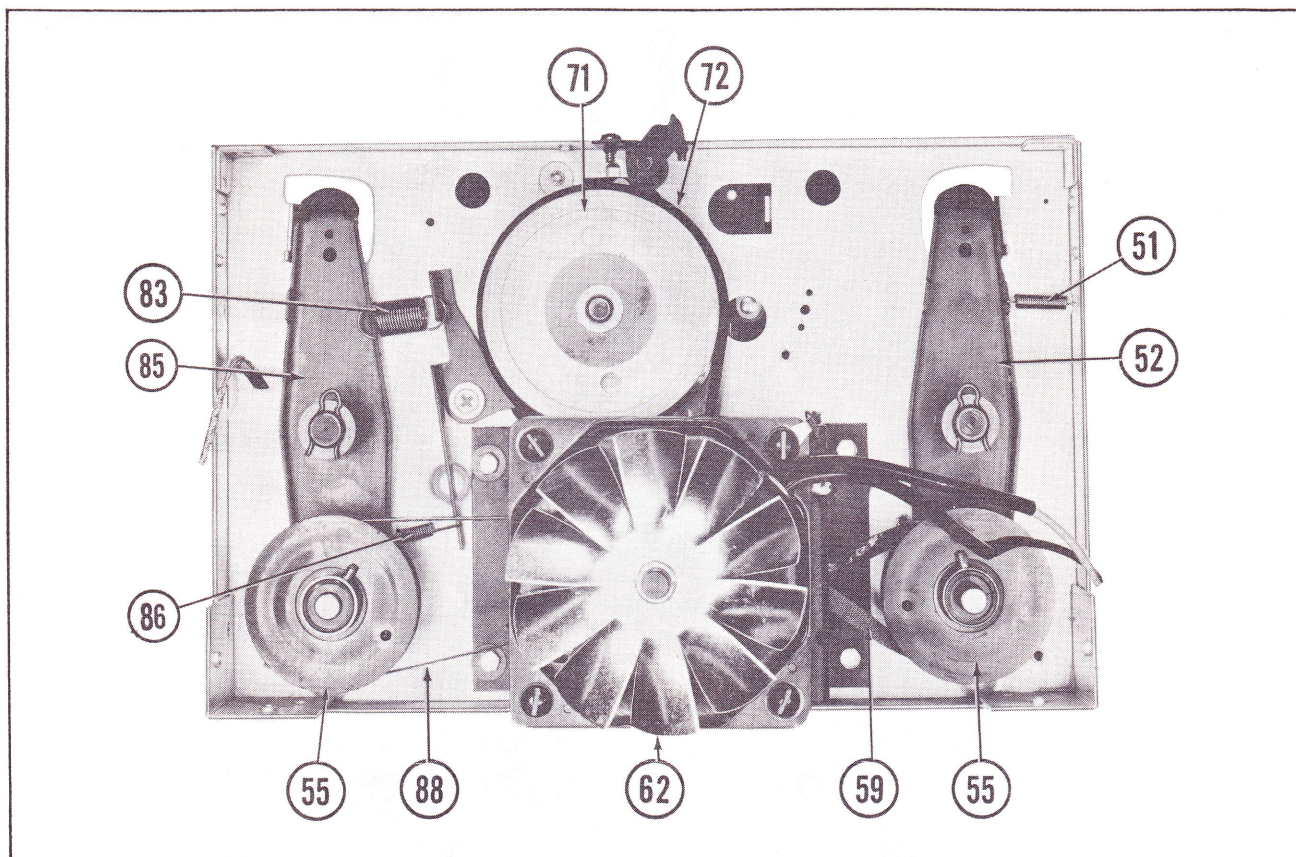


FIG. 2

simple alignment procedure is as follows:

(a) Place a full reel of tape on the right hand spindle (19) and thread tape. See "Threading Tape".

(b) Pull tape tight against Heads (26) and (28) by rotating one reel while holding the other reel.

(c) Both heads should then be positioned so the top edge of the tape is exactly even with the bottom edge of the ground down "flat" section on the face of the heads.

(d) When in this position, both heads should also be perpendicular to the bracket vertically and horizontally.

(e) The faces of the heads should be in line with each other so as to present a flat surface to the tape, i.e. one head should not protrude further forward than the other.

3. Output Response

To make this adjustment, a tape on which a 3000 cycle note has been recorded by a unit known to be in good operating condition will be required.

Connect an output meter, or AC voltmeter, across the speaker voice coil of the unit to be adjusted. While playing back the 3000 cycle note tape, pivot head (39) back and forth on mounting screw (23) until maximum amplitude on output meter is achieved. Make certain that head height has not been changed.

If a 3000 cycle tape cannot be made, use a recording with high note content to make the adjustment described above.

4. Track Overlap

This should be checked by first making a recording on a blank tape with the unit being checked.

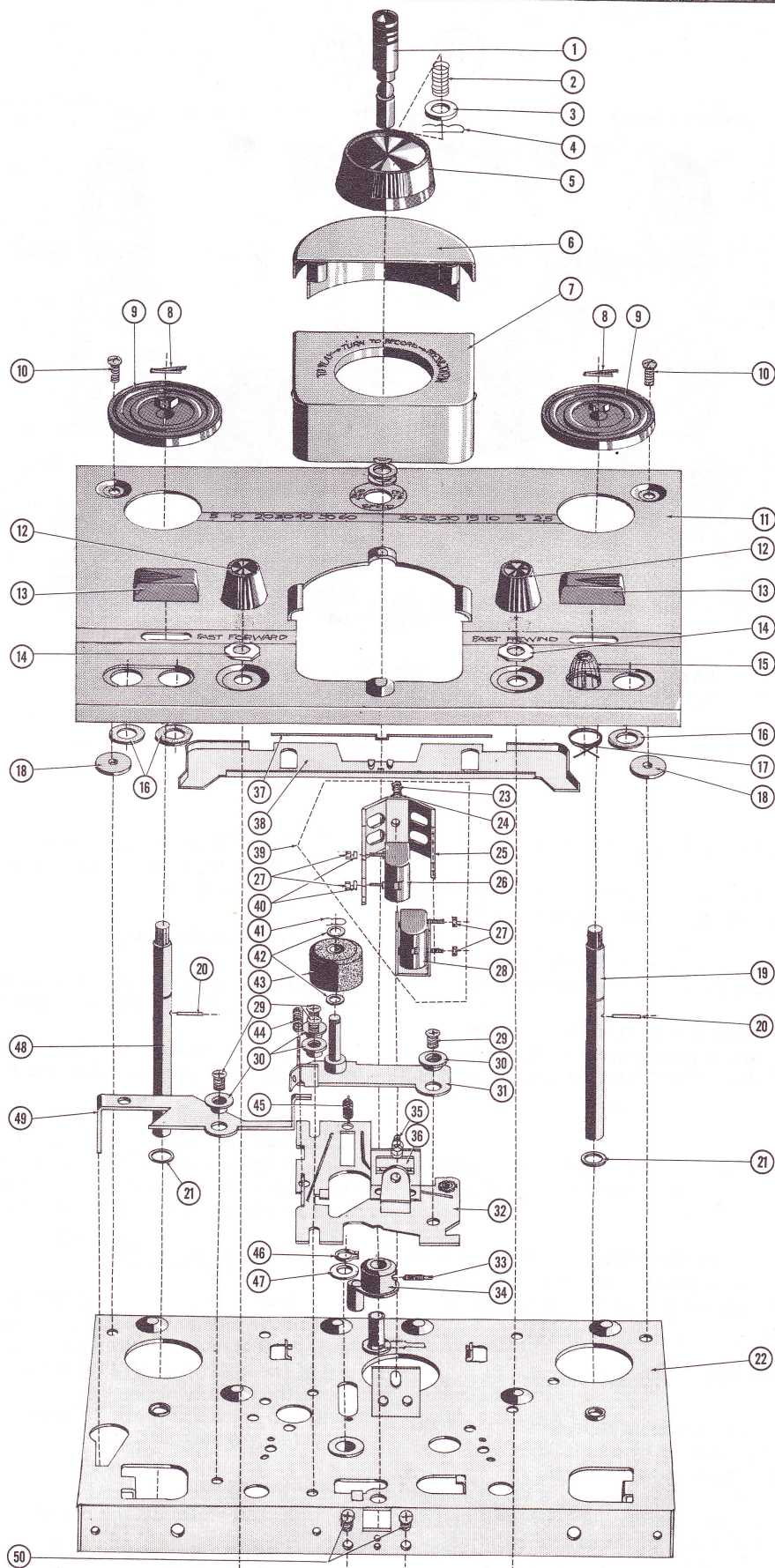
Do not rewind the tape, merely reverse the reels and play back the other track.

There should be no sound but, if what is heard is backwards, there is track overlap. To correct this, it will be necessary to adjust the tape guide on the side of the head holder by bending it upwards. This should move the tracks further apart.

Switch Cam Adjustment-

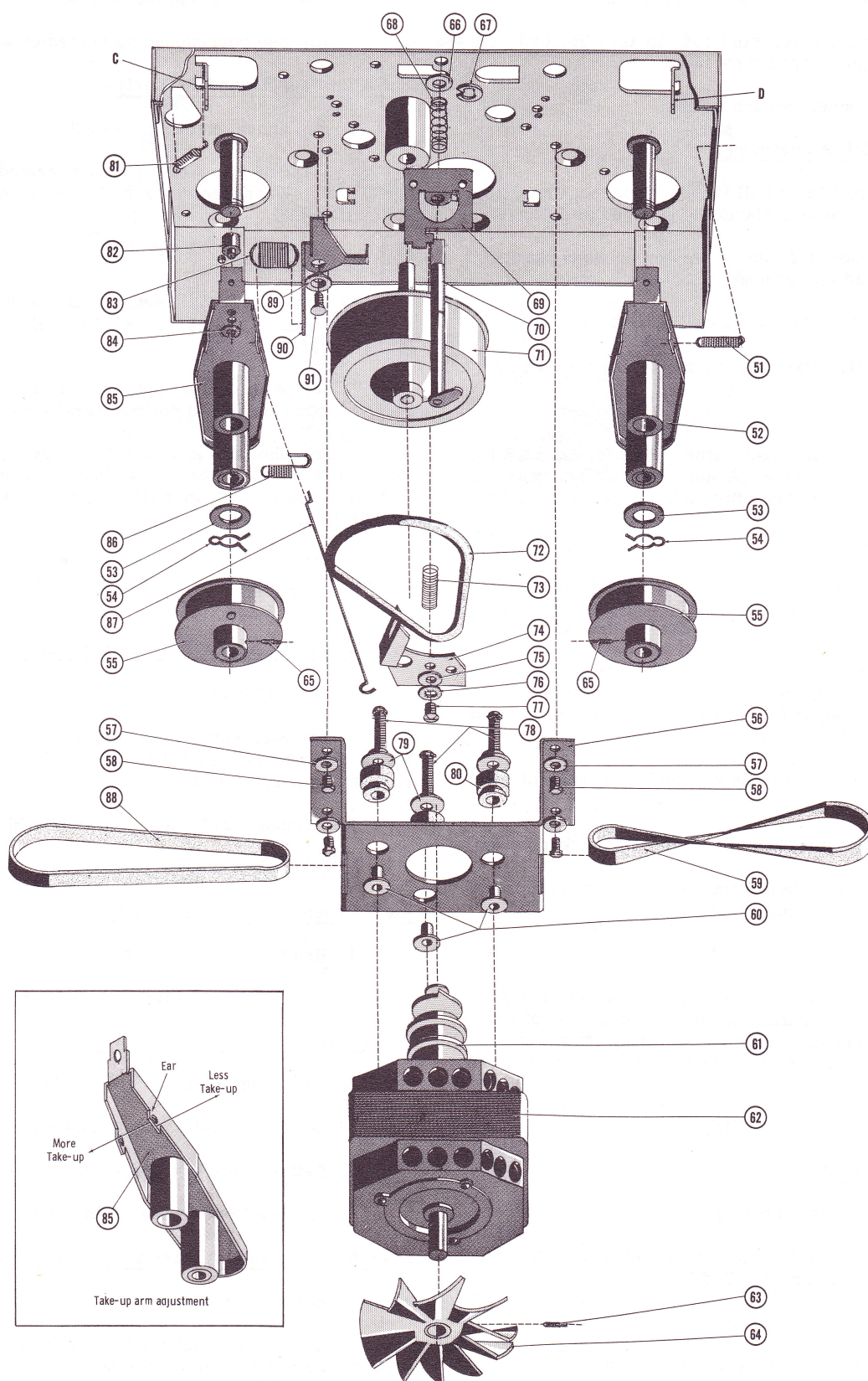
The Play-Record Switch in the amplifier chassis is normally held in the play position by a spring located on the switch arm. When cam on the end of the control shaft (70) actuates switch, it should move the switch far enough to allow all circuits to be switched from Playback to Record. If adjustment is required proceed as follows:

1. Loosen set screw (33).
2. Carefully detach one end of switch spring.
3. Push down on control knob (5) and turn it clockwise to the Record position.
4. Manually move switch cam (70) until first



A PHOTOFACT "EXPLODED" VIEW
© Howard W. Sams & Co., Inc. 1957

FIGURE 3A. EXPLODED VIEW OF PARTS ABOVE BASEPLATE.



A PHOTOFACT "EXPLODED" VIEW
© Howard W. Sams & Co., Inc. 1957

FIGURE 3B. EXPLODED VIEW OF PARTS BELOW BASEPLATE.

slide contact touches only the first two wiper contacts. At all times during this step, switch cam (70) must touch switch cam at end of switch slide.

5. Move pusher stud (34) to the "Record" position and tighten set screw (33).

6. Reconnect switch spring.

Oscillator Coil Adjustment-

If the oscillator coil (L1) is replaced, the setting of the adjustable slug should be checked as follows:

1. Connect a frequency meter between point 2 of the erase head and ground.

2. Turn volume and tone controls on.

3. Set the Play-Record knob (5) to the "Record" position.

4. Adjust the oscillator slug for a 52.5 KC reading on the meter (A non-metallic screwdriver should be used for this adjustment.)

Hum Balance-

When either the 12AX7 tube or the Head (39) has been changed, the setting of the hum balancing control should be checked. This can be done as follows:

1. Connect an A.C. V.T.V.M. across the speaker coil. The meter's lowest scale should have a .1 volt reading at full scale deflection, or at least 1/3 of full scale.

2. Turn volume control and tone control fully clockwise.

3. Set control knob (5) to the playback position.

4. Adjust the hum balance control for a minimum reading. This reading should not exceed .1 volt.

LUBRICATION

The lubrication applied at the time of manufacture should be sufficient for a long period of time. In cases of unusual use, high operating temperatures, or the replacement of a part, lubrication may be required.

TROUBLES

Improper Tape Take-Up-

1. Spindle (48) binding.

(a) Lubricate and check end play. See adjustment section "Spindle End Play".

2. Improper Take-up spring (83) action.

(a) See "Take-up Lever Adjustment".

3. Drive belt slipping.

(a) Clean pulleys.

4. Broken drive belt.

Fails To Fast Forward Properly-

1. See above except for step 2.

(a) See corresponding remedies above.

Fails To Fast Rewind Properly-

1. See above except for step 2.

(a) See corresponding remedies above.

CAUTION: When replacing belt (59) be sure to give it a half-twist.

Stalling Or Binding-

1. Speed control (11 setting changed while unit is not turned on. This should be done only while motor (62) is rotating.

(a) With motor (62) turned on, try moving Speed Control (1) up and down several times.

(b) Should the above fail, try holding Fast Forward Control to the left as far as it will go, and with the other hand manually rotate Take-up Reel Spindle (48).

(c) If binding continues it will be necessary to remove unit from cabinet and free any binding action.

Speed Does Not Agree With Speed Setting-

1. Bend Speed Control Bracket (74).

(a) Straighten bracket (74) so that upper and lower fingers are equal distant from drive belt when belt is in normal operating position.

2. Broken "ears" on Drive Pulley (61).

(a) Replace entire motor (62).

Tape Creeps Out Of Tape Slot-

1. Head (93) improperly adjusted.

(a) See "Head Alignment Adjustment".

Plays Back But Does Not Record-

1. Bad component.

(a) Check voltage and resistance readings.

2. Switch slide not contacting proper terminal.

(a) See "Switch Cam Adjustment".

Does Not Completely Erase Previous Recording-

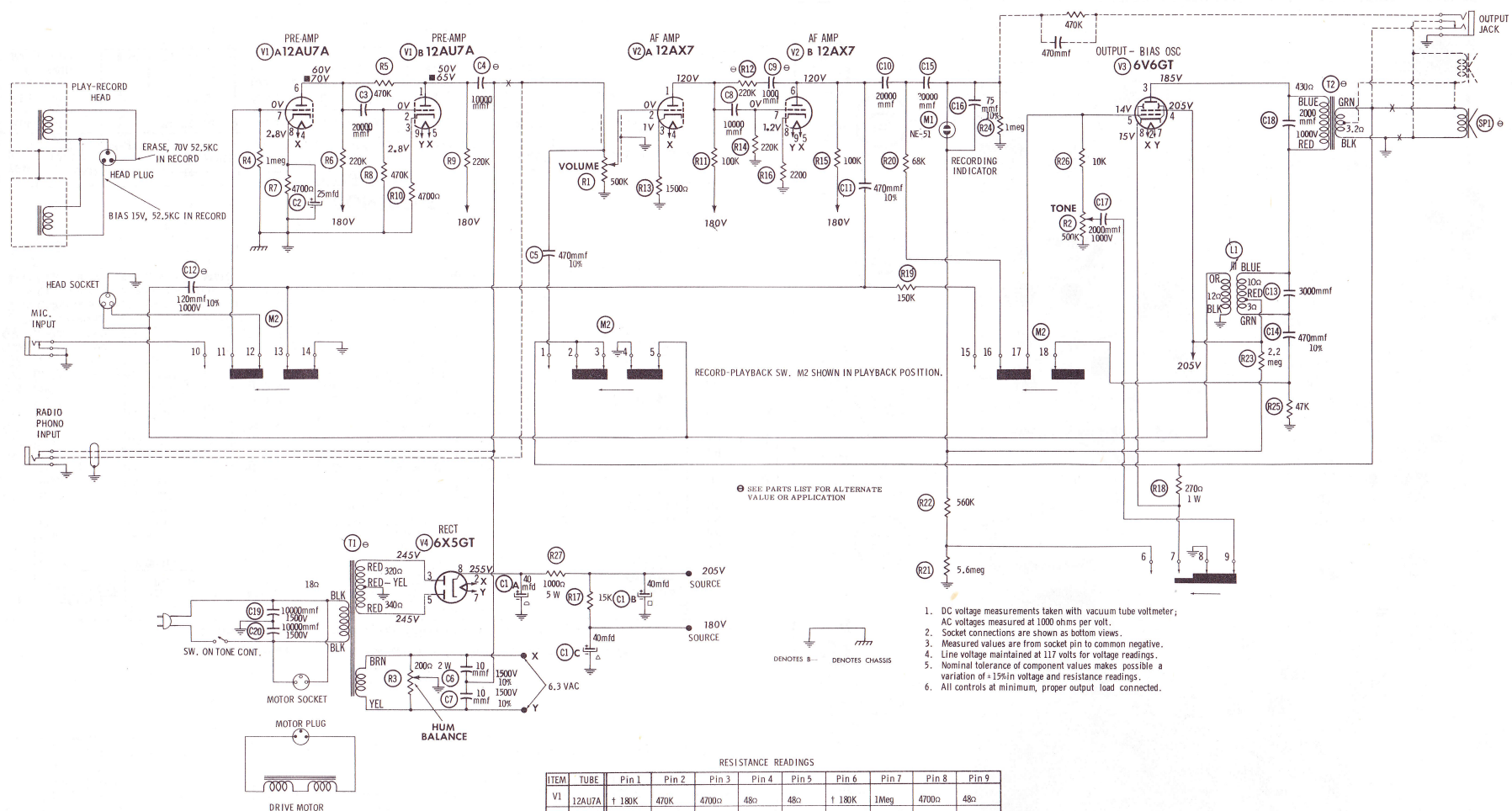
1. Bad 6V6GT tube.

(a) Replace tube. This tube may function properly as a power amplifier but not as an oscillator which is needed for erasing.

2. Bad Head.

(a) Replace head following "Head Alignment Adjustment".

A PHOTOFACT STANDARD NOTATION SCHEMATIC
Howard W. Sams & Co., Inc. 1957



SILVERTONE MODELS 8070, 8072 (Ch. 528.58010, 528.58011,
528.58030, 528.58031, 528.59040, 528.59041, 528.59060, 528.59061)

FOLDER 11

380-11

PARTS LIST AND DESCRIPTIONS TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES
V1	Pre-Amplifier	12AU7A	
V2	AF Amplifier	12AX7	

ITEM No.	USE	TYPE	NOTES
V3	Output, Bias Osc	6V6GT	
V4	Rectifier	6X5GT	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	VOLT.	REPLACEMENT DATA					
			SILVERTONE PART No.	AEROVOX PART No.	CORNELL DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.
C1A	40	300	18-31-3	AFH3-44	DO020	FP377	TMT-23	D-130
C1B	40	300						MT-4540
C1C	40	300						RI898*
C2	25	25	18-52-5	PRE25V25	BBR25-25	TC26	TD-25-25	FM-0225
								TVA-1205

* Non-Catalog Item.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

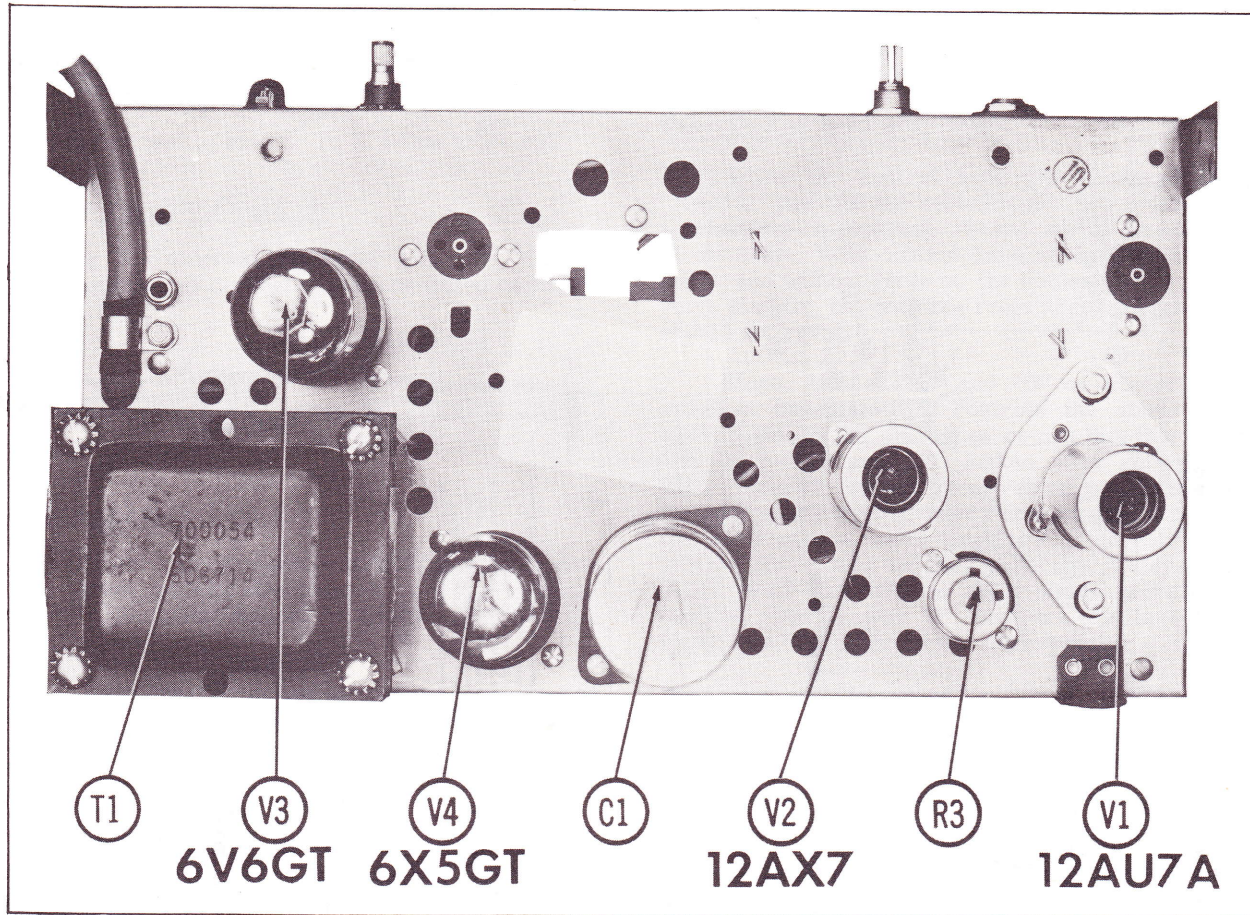
ITEM No.	RATING CAP.	VOLT	REPLACEMENT DATA							NOTES
			SILVERTONE PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	
C3	20000		15-20316	BPD-02	DD-203	BYB6S2	ED-02	DC511	5HK-S2	Note 1 10% 10% 10%
C4	10000				DD-103	BYA6S1	ED-01		5HK-S1	
C5	470		15-47111	BPD-01	D6-471	L10T47	ED-470			
C6	10		15-10011	NPO-S110	DD-100	L10Q1	ED-10	ZT-541	5TCC-Q1	Note 2 10% 10% 10%
C7	10		15-10011	NPO-S110	DD-100	L10Q1	ED-10	ZT-541	5TCC-Q1	
C8	10000		15-10316	BPD-01	DD-103	BYA6S1	ED-01	DC511	5HK-S1	
C9	1000		15-10211				ED-1000			Note 3 10% 10% 10%
C10	20000		15-20316	BPD-02	DD-203	BYB6S2	ED-02		5HK-S2	
C11	470	1000	15-47111		D6-471	L10T47	ED-470			
C12	120		15-12111							10% 10% 10%
C13	3000			1467-0003		IW5D3			1FM-23	
C14	470		15-47111	BPD-02	D6-471	L10T47	ED-470			
C15	20000		15-20316	BPD-02	DD-203	BYB6S2	ED-02		5HK-S2	10% 10% 10%
C16	75		15-75011	NPO-S175	DD-750	L10Q75	ED-75			
C17	2000	1000	15-20226		DD-202	BYA1002			5GA-D2	
C18	2000	1000	15-20226		DD-202	BYA1002			5GA-D2	10% 10% 10%
C19	10000	1500	20-75-0	DAC-27		HVE16S1		GEM-1611	BL-S10	
C20	10000	1500	20-75-0	DAC-27		HVE16S1		GEM-1611	BL-S10	

① Some versions use an .01 in this application.
② In Chassis 567, 59060 a 1500 MMF @ 500V 10% GP Part #15-15211 is used in this application.
③ In Chassis 528, 59040 a 750 MMF @ 500V 10% GP Part #15-75011 is used.
④ In Chassis 528, 59040, 80 a 75 MMF @ 500V 10% GP Part #15-75011 is used in this application.

CONTROLS

ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA					INSTALLATION NOTES
			SILVERTONE PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	
R1A	500K	1/2	24-267-0	B-60	A47-500K-Z	Q13-133	U48	Volume
R2A	500K	1/2	24-143-2	B-60	A47-500K-Z	Q13-133	U48	Tone
R3	2004	2 W	24-1-3	KB-1	SWE-12	76-1	US-26	Hum Balance Wire Wound

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING			REPLACEMENT DATA			NOTES
	OHMS	WATT		SILVERTONE PART No.	IRC PART No.	REPLACEMENT DATA	
R4	1Meg			60-10501	BTS-1Meg		
R5	470K			60-47401	BTS-470K		
R6	220K			60-22401	BTS-220K		
R7	4700Ω			60-47201	BTS-4700		
R8	470K			60-47401	BTS-470K		
R9	220K			60-22401	BTS-220K		
R10	4700Ω			60-47201	BTS-4700		
R11	100K			60-10402	BTS-100K		
R12	220K			60-22401	BTS-220K		
R13	1500Ω			60-15201	BTS-1500		
R14	220K			60-22401	BTS-220K		
R15	100K			60-10402	BTS-100K		
R16	2200			60-22202	BTS-2200		
R17	15K			60-15302	BTS-15K		
R18	270Ω			60-27111	BTA-270		
R19	150K			60-15401	BTS-150K		
R20	68K			60-68301	BTS-68K		
R21	5.6Meg			60-56501	BTS-5.6Meg		
R22	560K			60-56401	BTS-560K		
R23	2.2Meg			60-22502	BTS-2.2Meg		
R24	1Meg			60-10501	BTS-1Meg		
R25	47K			60-47301	BTS-47K		
R26	10K			60-10302	BTS-10K		
R27	1000Ω			61-95	PW7-1000		

Note 1. Alternate Part No. 60-27401, 270KΩ Used In Ch. 567-59060 Only.

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA			Triad PART No.
	PRI.	SEC. 1	SEC. 2	SILVERTONE PART No.	Merit PART No.	Stancor PART No.	
T1	HTVAC 50VCT ④ .30A	6.3V ④ 1.1A	SEC. 3	700054 ③	P-3048 ① ②	PM6403 ① ②	R-88 ① ②

① Tape 5V Winding.

② Tape center tape on 6.3V Winding.

③ Alternate Part No. 80-2-0.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	REPLACEMENT DATA			REPLACEMENT DATA			NOTES
	SILVERTONE PART No.	Merit PART No.	Stancor PART No.	SILVERTONE PART No.	Merit PART No.	Stancor PART No.	
T2	700055 ①	Z1107	A-3877	700054 ③	P-3048 ① ②	PM6403 ① ②	

SPEAKER

ITEM No.	REPLACEMENT DATA			REPLACEMENT DATA			NOTES
	TYPE	SIZE	FIELD	SILVERTONE PART No.	QUAM PART No.	Merit PART No.	
SPI	5 1/4" PM	3-4Ω	V. C. IMP.	013630 ①	52A21	A-3877	① Alternate Part Number 33-296-4, 33-265-4

COILS (RF-IF)

ITEM No.	REPLACEMENT DATA			REPLACEMENT DATA			NOTES
	USE	SILVERTONE PART No.	Merit PART No.	SILVERTONE PART No.	Merit PART No.	Stancor PART No.	
L1	Bias Oscillator	10-31-4		10-31-4			Includes C13.

MISCELLANEOUS

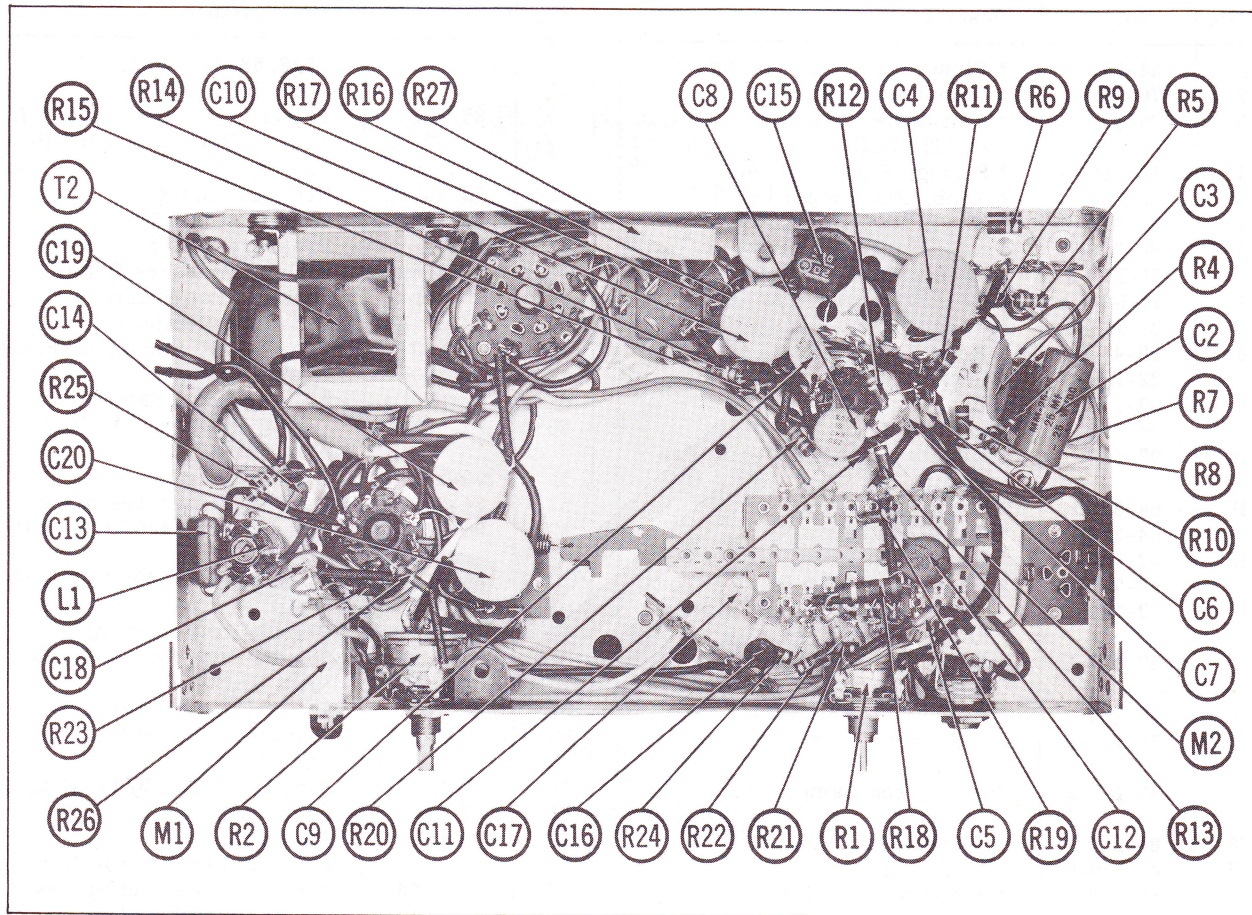
ITEM No.	REPLACEMENT DATA			REPLACEMENT DATA			NOTES
	PART NAME	SILVERTONE PART No.	Merit PART No.	SILVERTONE PART No.	Merit PART No.	Stancor PART No.	
M1	Indicator Switch	89-19		89-19			
M2	Record & Playback (Slide Type)	69-238-0		69-238-0			Type NE51

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

ITEM No.	REPLACEMENT DATA			REPLACEMENT DATA			NOTES
	NAME	PART No.	DESCRIPTION	SILVERTONE PART No.	Merit PART No.	Stancor PART No.	
Knob	Cabinet Knob	52-845-0	On-Off Volume (Model 8070)				
		42-12-5	W/ Lid (Model 8070)				
		42-1-5	W/ Lid (Model 8072)				

CHASSIS—BOTTOM VIEW



MECHANICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	84-3405	* Plunger Knob & Shaft Ass'y.			528.58031 - 528.58011 -
2	70-259-0	* Compression Spring			567.58031
3	86-270	* Flatwasher, Rubber 5/16" I.D. x 9/16" O.D.	40	86-295	Flatwasher, .092" I.D. x 7/32" O.D. (Part of 84-3403 Head Ass'y.)
4	70-256-0	* Spring, Plunger Detent	41	22-40-1	Retainer Spring
5	52-846-0	† Knob, Play-Record (U	42	86-282	Washer, Cloth (2)
	52-779-0	* Knob, Play-Record	43	39-1-5	Pressure Roller
6	84-3781	† Head Cover	44	70-258-0	Spring, Pressure Roller
	21-337-0	* Head Cover	45	70-251-0	Spring, Slide Return
7	21-141-0	† Cover, Pressure Roller	46	22-37-1	Split Ring Retainer
	21-338-0	* Cover, Pressure Roller	47	86-280	Flatwasher, Capstan & Flywheel
8	22-41-1	† Retainer Spring (2)	48	84-3404	Spindle Ass'y.
	22-110-0	* Retainer Spring (2)	49	22-15-4	* Lever, Foot Switch
9	83-1127	† Reel Plate (2)	50	97-569	Screw, #6-32 x 1/4" Phil. Bd. Hd.
	84-3381	* Reel Plate			51 70-252-0 Brake Spring (Right)
10	97-569	Screw, #6-32 x 1/4" Phil. Pan Hd. (2)	52	84-3419	Feed Reel Arm Assembly
11	84-3780	† Top Plate Ass'y.	53	86-289	Flatwasher, .440" I.D. x 11/16" O.D.
	84-3296	* Top Plate Ass'y.		or	86-290 Flatwasher, .440" I.D. x 11/16" O.D.
12	52-845-0	† Knob, Volume & Off/ On-Tone	54	22-42-1	Hairpin Retainer (Large)
	52-781-0	* Knob, Volume & Off/ On-Tone	55	84-3413	Spindle Pulley & Set Screw Ass'y. (2)
13	52-844-0	† Knob, Fast Forward & Fast Rewind (2)			56 84-3407 Bracket, Motor & Lug Ass'y.
	52-782-0	* Knob, Fast Forward & Fast Rewind (2)	57	86-294	Flatwasher, .188 "I.D. x 7/16" O.D. (4)
14	56-230	Hex Nut, #3/8-32 (2)	58	97-567	Screw, #8-32 x 3/16" Hex. Hd.
15	48-138-2	Jewel, Neon Lamp	59	62-78-0	Drive Belt
	or		60	65-123	Eyelet (3)
	48-139-2	Jewel, Neon Lamp (Alternate Part)	61		Drive Pulley (Part of Motor)
16	86-265	* Flatwasher, Fiber (1)	62	84-3456	Motor, Plug & Pulley Ass'y.
17	22-120-0	Retainer Spring	63	97-619	Set Screw, #8 x 3/16" "Allen Hd." Cup. Pt.
18	86-273	* Flatwasher, .176" I.D. x 5/8" O.D. (2)	64	84-4240	Fan, Hub & Set Screw Ass'y.
19	84-3404	Spindle Ass'y.	65	97-577	Set Screw, #6-32 x 3/8" "Slab Hd." Cone Pt.
20		Roll Pin (2)	66	86-288	Washer, Rubber
21	86-280	Flatwasher, .315" I.D. x 1/2" O.D. (4)	67	22-38-1	"E" Washer, Retainer
22	84-3800	† Base Plate, Includes Staked & Riveted Parts	68	70-260-0	Record Release Spring
	84-3421	* Base Plate, Includes Staked & Riveted Parts	69	11-1046	Control Shaft Bracket
23	97-575	Head Retaining Screw	70	84-3410	Control Shaft & Lever Ass'y.
24	86-294	Washer, Flat	71	84-3466	Capstan Shaft & Flywheel Ass'y.
25	11-1048	Bracket, Head Mounting	72	62-79-0	Flywheel Belt
26	33-271-0	Record Head (MM #3M-20) (Used In Chassis 528.58031-528.58011 - 567.58031)	73	70-259-0	* Spring, Two Speed Control (Lower)
27	56-234	Hex Nut (4)	74	22-14-4	* Speed Control Bracket
28	33-270-0	Erase Head (MM #7EM-12) (Used In Chassis 528.58031-528.58011 - 567.58031)	75	86-284	* Washer, Flat
			76	86-45	* Lockwasher
29	97-573	Screw, #6-32 x 1/4" Phil. Flat Hd. (4)	77	97-569	Screw, #6-32 x 1/4" Phil. Pan Hd.
30	72-135	Washer, Slide Button (4)	78	97-574	Screw, #8-32 x 5/8" Hex. Hd. Motor Mounting (3)
31	84-3408	Pressure Roller Arm	79	86-293	Washer, Motor Mounting (3)
32	84-3458	Pressure Plate & Spring Ass'y.	80	62-74-0	Rubber Bushing, Motor Mounting (3)
33	97-577	Set Screw, #6-32 x 3/8" "Slab Hd."	81	70-244-0	* Return Spring, Foot Switch
34	84-3409	† Lifter Arm & Set Screw Ass'y.	82	39-1-0	* Cam, Foot Switch Adjustment
	84-3399	* Lifter Arm & Set Screw Ass'y.	83	70-250-0	Take-up Spring
35	70-253-0	Spring, Pressure Shoe	84	22-46-1	* Retainer, Foot Switch Adjust. Cam
36	84-3401	Pressure Shoe Ass'y.	85	84-3420	Reel Arm Take Up Ass'y.
37	70-249-0	* Spring, Brake Lever	86	70-257-0	Brake Spring (Left)
38	28-112-1	* Brake Plate	87	39-5-3	Foot Switch Linkage Rod
39	84-3403	Head Ass'y. (Used In Chassis 528.58030 - 528.58010 - 567.58030)	88	62-78-0	Drive Belt, Take-Up
	84-3418	Head Ass'y. (Used In Chassis	89	72-135	Washer, Slide Button Spacer
			90	22-13-4	Take Up Lever
			91	97-573	Screw

† Parts Marked With Dagger Used In Model 8070.

* Parts Marked With Asterisk Used In Model 8072.